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APPLICATION NO.	PLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/681,993	07/05/2001		Peter L. Andresen	RD-29318	8489	
6147	7590	10/22/2003	_	: EXAMINER		
		RIC COMPANY H CENTER	THORNTON, KRISANNE MARIE			
PATENT D			ART UNIT	PAPER NUMBER		
PO BOX 8,	BLDG. K-	-1 ROSS	1744			
NISKAYUNA, NY 12309				DATE MAILED: 10/22/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	,	Application	No.	Applicant(s)	k
!		09/681,993		ANDRESEN ET AL.	
	Office Action Summary	Examiner		Art Unit	
		Krisanne M.	Thornton	1744	
Period for	Th MAILING DATE f this communic Reply	cation appears on the c	over sheet with th	correspond nce address	S
THE N - Extens after S - If the p - If NO p - Failure - Any re	PRTENED STATUTORY PERIOD FO IAILING DATE OF THIS COMMUNIC sions of time may be available under the provisions of IX (6) MONTHS from the mailing date of this communeriod for reply specified above is less than thirty (30 period for reply is specified above, the maximum state to reply within the set or extended period for reply ply received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, unication. ) days, a reply within the statutor tutory period will apply and will ey vill, by statute, cause the applicat	however, may a reply be to y minimum of thirty (30) de pire SIX (6) MONTHS fron ion to become ABANDON	imely filed  ys will be considered timely.  n the mailing date of this commun  ED (35 U.S.C. § 133).	ication.
1) 🗌	Responsive to communication(s) file	ed on			
2a) <u></u> □	This action is <b>FINAL</b> .	this action is no	n-final.		
3)□ Dispositio	Since this application is in condition closed in accordance with the praction of Claims				erits is
4) 🛛 (	Claim(s) <u>1-98</u> is/are pending in the a	pplication.			
4	a) Of the above claim(s) is/ar	e withdrawn from consi	deration.		
5) 🗌 (	Claim(s) is/are allowed.				
	Claim(s) <u>1-98</u> is/are rejected.				
	Claim(s) is/are objected to.				
	Claim(s) are subject to restrict	ion and/or election requ	uirement.		
Application		•			
9)⊠ T	he specification is objected to by the	Examiner.			
10)□ T	he drawing(s) filed on is/are:	a)□ accepted or b)□ ob	jected to by the Exa	aminer.	
	Applicant may not request that any obje	ection to the drawing(s) be	held in abeyance.	See 37 CFR 1.85(a).	
11) 🗌 T	he proposed drawing correction filed	on is: a)  app	oved b)⊡ disappr	oved by the Examiner.	
	If approved, corrected drawings are req	uired in reply to this Office	action.		
12)[] T	he oath or declaration is objected to	by the Examiner.			
Priority ur	nder 35 U.S.C. §§ 119 and 120				
13) 🗌 🛚	Acknowledgment is made of a claim t	for foreign priority unde	r 35 U.S.C. § 119(	a)-(d) or (f).	
a) <u></u>	All b) ☐ Some * c) ☐ None of:				
1	. Certified copies of the priority of	locuments have been r	eceived.		
2	2. Certified copies of the priority of			tion No	
	B. Copies of the certified copies o application from the Internate the attached detailed Office action	ational Bureau (PCT Ru	le 17.2(a)).	_	е
	knowledgment is made of a claim fo		•		ication).
a)	☐ The translation of the foreign lang	guage provisional appli	cation has been re	ceived.	,
Attachment(					
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PT ation Disclosure Statement(s) (PTO-1449) Pa		_	ry (PTO-413) Paper No(s) Patent Application (PTO-152)	
S. Patent and Trac PTOL-326 (Rev		Office Action Summary		Part of Pape	r No. 6

Application/Control Number: 09/681,993

Art Unit: 1744

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#### **DETAILED ACTION**

## Specification

The abstract of the disclosure is objected to because of the inclusion of legal phraseology such as "comprises". Correction is required. See MPEP § 608.01(b).

# Claim Objections

Claims 80-84 and 98 are objected to because of the following informalities: the preamble of claims 80-84 refers to "The method", however, claim 76 from which they depend, is set forth as "The system". Appropriate correction is required.

With respect to claim 98, this claim is missing it's numerical identifier.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-98 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fulton et al., U.S. patent No. 6,316,377 in view of Hettiarachchi et al., U.S. patent No. 5,602,888.

Fulton et al., formation of catalytic nanoparticles that exhibit exceptional stability in hydrothermal environments and further teach that such nanoparticles are applied in the corrosion protection coatings for elements within high temperature aqueous conditions. See column 5, lines 35-50.

Hettiarachchi et al., teach the known and expected use of suspensions for the application of catalytic corrosion inhibitors within high temperature reactor environments. See column 4, lines 35-40.

It would have been well within the purview of one of ordinary skill in the art to employ the catalytic nanoparticles as taught in Fulton et al., for corrion inhibition in a conventional format such as that taught by Hettiarachchi et al., with application of the nanoparticles in a colloidal suspension.

With respect to claims 11-12, 21-23 and 56-58, it would have been obvious to one of ordinary skill in the art to determine optimal concentration and delivery

Art Unit: 1744

configurations for the hydrothermal application being treated, including either continuous or intermittent delivery.

With respect to claim 14-17, see claim 8 of Hettiarachchi et al.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krisanne M. Thornton whose telephone number is 703-308-3914. The examiner can normally be reached on Mon.-Wed. 6:30am-4:00pm. On or about December 16, 2003, the examiner will be relocated to a new office, at which time she can be contacted at (571)272-1279.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Warden can be reached on 703-308-2920. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

October 20, 2003